

Microbiome Information for: Atrial fibrillation

For prescribing Medical professionals Review

The suggestions below are based on an Expert System (Artificial Intelligence) modelled after the MYCIN Expert System produced at Stanford University School of Medicine in 1972. The system uses over 1,800,000 facts with backward chaining to sources of information. The typical sources are studies published on the US National Library of Medicine.

Many recent studies has found that symptoms and symptom severity has strong associations to the microbiome for many conditions. Correcting the microbiome dysfunction is beleived to reduce the severity of symptoms. In some cases, this correction may cause symptoms to disappear.

These are *a priori suggestions* that are predicted to independently reduce microbiome dysfunction. Suggestions should *only be done after a review* by a medical professional factoring in patient's conditions, allergies and other issues.

This report may be freely shared by a patient to their medical professionals

Best practise for making microbiome adjustments is to obtain the individuals microbiome. The following are the best microbiome to use with this expert system model. The suggestions below are intended as temporary suggestions until a test result in received.

In the USA

Ombre (<https://www.ombrelab.com/>)

Thorne (<https://www.thorne.com/products/dp/gut-health-test>)

Worldwide: BiomeSight (<https://biomesight.com>) - Discount Code 'MICRO'

Analysis Provided by Microbiome Prescription

A Microbiome Analysis Company

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Email: Research@MicrobiomePrescription.com

[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Atrial fibrillation

Nota Bena: Many studies are done with a small sample size or mixtures of condition subsets which can greatly diminish the ability to detect bacteria shifts.

Bacteria Name	Rank	Shift	Taxonomy ID
Alphaproteobacteria	class	Low	28211
Flavobacteriia	class	Low	117743
Sphingobacteriia	class	Low	117747
Alcaligenaceae	family	High	506
Barnesiellaceae	family	Low	2005519
Clostridiaceae	family	Low	31979
Flavobacteriaceae	family	Low	49546
Lachnospiraceae	family	Low	186803
Sphingobacteriaceae	family	Low	84566
Veillonellaceae	family	Low	31977
Acinetobacter	genus	High	469
Aeromonas	genus	High	642
Agathobacter	genus	High	1766253
Allisonella	genus	High	209879
Bilophila	genus	Low	35832
Blautia	genus	High	572511
Brevundimonas	genus	Low	41275
Burkholderia	genus	High	32008
Butyricicoccus	genus	Low	580596
Butyrivibrio	genus	Low	830
Citrobacter	genus	Low	544
Coprococcus	genus	High	33042
Desulfovibrio	genus	High	872
Dialister	genus	High	39948
Dorea	genus	High	189330
Eisenbergiella	genus	High	1432051
Enorma	genus	High	1472762
Enterobacter	genus	High	547
Enterococcus	genus	High	1350
Escherichia	genus	Low	561
Faecalibacterium	genus	Low	216851
Haemophilus	genus	High	724
Holdemanella	genus	Low	1573535
Holdemania	genus	High	61170
Hungatella	genus	Low	1649459

Bacteria Name	Rank	Shift	Taxonomy ID
Klebsiella	genus	High	570
Kluyvera	genus	High	579
Lachnobacterium	genus	Low	140625
Lachnoclostridium	genus	High	1506553
Lachnospira	genus	High	28050
Lactobacillus	genus	High	1578
Lactococcus	genus	High	1357
Oscillibacter	genus	Low	459786
Parabacteroides	genus	High	375288
Paraprevotella	genus	Low	577309
Prevotella	genus	Low	838
Ruminococcus	genus	High	1263
Sanguibacteroides	genus	Low	1635148
Sellimonas	genus	High	1769710
Shigella	genus	Low	620
Sphingobacterium	genus	Low	28453
Streptococcus	genus	High	1301
Turidibacter	genus	Low	191303
Tyzzerella	genus	Low	1506577
Veillonella	genus	High	29465
Burkholderiales	order	High	80840
Flavobacteriales	order	Low	200644
Hyphomicrobiales	order	Low	356
Micrococcales	order	Low	85006
Sphingobacteriales	order	Low	200666
Agathobacter rectalis	species	Low	39491
Bacteroides fragilis	species	High	817
Corynebacterium striatum	species	High	43770
Eubacterium ramulus	species	High	39490
Faecalibacterium prausnitzii	species	High	853
Helicobacter pylori	species	High	210
Phocaeicola coprophilus	species	Low	387090
Porphyromonas gingivalis	species	High	837
Segatella copri	species	Low	165179
Staphylococcus aureus	species	High	1280

Substance to Consider Adding or Taking

These are the most significant substances that are likely to improve the microbiome dysfunction. Dosages are based on the dosages used in clinical studies. For more information see: <https://microbiomeprescription.com/library/dosages>. These are provided as examples only

Colors indicates the type of substance: i.e. probiotics and prebiotics, herbs and spices, etc. There is no further meaning to them.

Antibiotics annotated with [CFS] have been used with various degree of success with Myalgic Encephalomyelitis, Chronic Fatigue Syndrome, Chronic Lyme, Chronic Q-Fever and Long COVID conditions. Rotation of antibiotics with 3 weeks off between courses is recommended.

(2->1)-beta-D-fructofuranan {Inulin} 32 gram/day	
Agaricus bisporus {White button mushrooms}	
Amylum {Starch}	
Avena sativa x Hordeum vulgare {barley,oat}	
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	
bifidobacterium	
Bifidobacterium animalis {B. animalis}	
bifidobacterium longum {B.Longum } 10 BCFU/day	
Bovine Milk Products {Dairy}	
Caffeine	
Coffee	
Cola aspartame {Diet Cola}	
dietary fiber	
fructo-oligosaccharides 15 gram/day	
high-fat diets	
Hordeum vulgare {Barley} 60 gram/day	
Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2 gram/day	
Lactocaseibacillus casei {L. casei} 48 BCFU/day	
lactobacillus acidophilus {L. acidophilus} 20 BCFU/day	
lactobacillus paracasei,lactobacillus acidophilus,bifidobacterium animalis	
Lactobacillus plantarum {L. plantarum} 60 BCFU/day	
	lactobacillus rhamnosus gg,bifidobacterium animalis lactis ,lactobacillus paracasei {cvs maximum strength probiotic}
	Lactose {Milk Sugar}
	Limosilactobacillus reuteri {L. Reuteri} 22 BCFU/day
	long-term, moderate-intensity exercise {exercise}
	oligosaccharides {oligosaccharides}
	Oryza sativa {Rice}
	Outer Layers of Triticum aestivum {Wheat Bran}
	Panax ... {Ginseng} 2000 mg/day
	Probiotic Mixture 1 {Japanese Vet Probiotic}
	Probiotic Mixture 2 {Vetafarm Probiotic}
	Prunus dulcis {Almonds} 90 gram/day
	resistant starch
	Saccharomyces cerevisiae var boulardii {S. boulardii} 6 BCFU/day
	Slow digestible carbohydrates. {Low Glycemic}
	soy 25 gram/day
	synthetic disaccharide derivative of lactose {Lactulose}
	walnuts 75 gram/day
	wheat
	whole-grain diet
	yogurt
	Zinc {Zinc Supplements} 300 mg/day
	β-lactoglobulin {Whey} 60 gram/day

Retail Probiotics

Over 260 retail probiotics were evaluated with the following deemed beneficial with no known adverse risks.

natviehealthcare.com/Renewbiome Mega
 Global Healing Center / FloraTrex
 Advanced Bio-Cultures / Advance Multi Strain Probiotics
 Physician Choice / 60 Billion Probiotics
 Garden of Life / Dr. Formulated Once Daily Women's
 nature's way (au) / restore probiotic 100 billion
 elixa / probiotic
 hyperbiotics / pro-15
 newrhythm / probiotics 20 strains
 vita miracle / ultra-30 probiotics
 bioray / cytoflora
 theramedix / probiotic
 Next Generation
 SuperSmart / Full Spectrum Probiotic Formula
 MegaFood / MegaFlora
 Northwest Natural Products / PB8
 Ombre / Metabolic Booster
 Dr. Mercola / Complete Probiotics
 Lake Avenue Nutrition / Probiotics 10 Strain Blend
 Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains
 Probiotic 10 Billion Active Cells Daily Maintenance
 douglas laboratories / multi probiotic 40 billion
 up4 / ultra
 probiotic pur (de) / realdose nutrition
 organic 3 / primal gut
 visbiome
 seed / female version
 seed / male version
 quantum wellness / restora flora
 renew life men's probiotic - ultimate
 fairvital / microflora basic
 udo's choice / super 8 gold
 1 md / complete probiotics platinum
 renew life / ultimate flora
 garden of life / primal defense
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion
 bioglan bio (au) / happy probiotic 100
 nature's way (au) / restore probiotic bowel & colon health 30s
 Realdose
 ASEA VIA / BIOME
 Physis / Advance Probiotics
 Swiss BioEnergetics / Full Spectrum Probiotic Defence
 Wholesome Wellness / Raw Probiotic
 OMNI-BIOTIC®/ 10 AAD
 OMNI-BIOTIC®/ TRAVEL
 Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
 Jetson (US) / Immunity Probiotics
 7 AM Ultra Probiotics
 LiveWell Nutrition / Pro-45
 HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM
 HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS
 Windove Probiotics / Ecologic®825
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
 naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion

bioglan bio (au) / happy probiotic 50
jarrow formulas / jarro-dophilus® ultra
jarrow formula / jarro-dophilus original
fürstenmed / lacto-bifido
lifted naturals / mood boosting probiotic
solaray / mycrobioime probiotic colon formula
nature's bounty / probioti 10
young living/life 9
optibac / for every day
spain (es) / vivomixx
up4 / adult
vinco / probiotic eight 65
SuperSmart / Probio Forte
Wakunaga / Max Probiotic
Bioflora(MX) / Woman
NOW FOODS / Clinical GI Probiotic
Krauterhaus / Lactopro
Ombre / Healthy Gut
Bio Schwartz / Advance Strength Probiotics (40 BCFU)
Invivo / Bio.Me Femme UT
ProbioMax® Daily DF
SuperSmart / Lactoxira
SuperSmart / Oral Health
Resbiotic / resB® Lung Support
Schwabe Pharma Italia / EnteroDophilus
Bromatech / ENTERELLE PLUS
Bromatech(IT) / FEMELLE
SuperSmart / Candalb
SuperSmart / Derma Relief
SuperSmart / Vaginal Health
ISCON Elegance/ Ochek Capsule 10
Bromatech (IT) / Citogenex
Bromatech (IT) / Enterelle
Bromatech (IT) / Lautoselle
Bromatech (IT) / Adomelle
Bromatech (IT) / Psicobrain
Ombre / Mood Enhancer
Bromatech (IT) / Rotanelle plus
Bromatech (IT) / Serobiome
Smidge / Sensitive Probiotic
CVSHealth / Daily Probiotic
Ombre / Heart Health
Bioflora (MX) / BIOFLORAMX / 50 BILLION 10 Strains
HMF Metabolic
Symprove™
up4 / women's
organic 3 / gutpro
bio-k+
klaire labs / target gb-x
cytoplan(uk) / dentavital bifidophilus
custom probiotics / four strain lactobacilli
custom probiotics / six strain probiotic powder
jamieson (can) / probiotic 10 bcfu
ferring / vsl#3
jarrow formulas / jarro-dophilus eps
jarrow formula / ideal bowel support® lp299v®
naturopathica (au) / gastrohealth fibrepro
zint nutrition / probiotic collagen +

just for tummies / live bacteria
bravo europe / starter and complex
nature's way (au) / restore probiotic 30 billion 30s
blackmores (au) / probiotics + adults daily (90 capsules)
blackmores (au) / probiotics+ immune defence
blackmore (au) / probiotics+ bowel support
jarrow formulas / bifidus balance® + fos
naturopathica (au) / gastrohealth probiotic adults 50+
naturopathica (au) / gastrohealth women's probiotic with cranberry
blackmore (au) / probiotics+ daily health
nature's way (au) / restore probiotic daily health 90s
HLH BIOPHARMA(DE) / LACTOBACT ® OMNI FOS
HLH BIOPHARMA(DE) / LACTOBACT ® AAD
Seeking Health / Probiota HistaminX
ecology_allergycare
Sash Vitality / Bio-Cultures Probiotics for Adults
NaturalPharma / Profit Probiotics
Nutrition Essentials / Probiotic (900 BCFU)
Thryve LPCasei Th1, LPCasei Th2, L.Ferm IBF1, L.acidoph
Sanogermiina / AB-Kolicare
CustomProbiotics.com / L. Acidophilus Probiotic Powder
CustomProbiotics.com / L. Casei Probiotic Powder
CustomProbiotics.com / L. Plantarum Probiotic Powder
CustomProbiotics.com / L. Reuteri Probiotic Powder
CustomProbiotics.com / B. Longum Probiotic Powder
HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL
nature's way (au) / restore probiotic choc balls 60s
Jetson / FIT
Nu U (uk) / Bio-Cultures Complex
bioglan bio (au) / happy probiotic 25
blackmore (au) / probiotics+ eczema relief
blackmore (au) / probiotics+ womens flora balance
bioglan (au) / healthy kids probiotic choc balls 50s
quality health (au) / fridge free* probiotic 60s
quality health(au) / fridge free probiotic 25b
bravo europe / freeze-dried bravo
naturopathica (au) / gastrohealth probiotic daily care
trubiotics / one a day
jarrow formulas / fem-dophilus®
jarrow formulas / jarro-dophilus mood
spain (es) / axiboulardi
spain (es) / casenbiotic
spain (es) / gum periobalance
spain (es) / gastrus
spain (es) / reuteri gotas
spain (es) / ultralevura
spain (es) / I3.1
spain (es) / profaes4 viajeros
bayer / trubiotics daily probiotic
custom probiotics / five strain bifidobacteria
speer labs / emuaid first defense
jarrow formulas / fem dophilus
klaire labs / ther-biotic factor 4
nature's instincts / ultra spore probiotic
florastor / florastor
align / align
natren / healthy trinity probiotic
natren / megadophilus

optibac / for women
optibac / for every day max
optibac / for your cholesterol
optibac / for those on antibiotics
optibac / bifidobacteria & fibre
optibac / saccharomyces boulardii
genestra brands® hm
goodbelly drink
gnc / ultra probiotic complex
spain (es) / aquilea intimus
spain (es) / profaes4 edad escolar
canada (ca) / calmbiotic
custom probiotics / d-lactate free probiotics powder
philips / colon health
microbiome labs / restorflora
organic 3 / yeastbiotic
powerlabs (au) / ultra blend
shin biofermin (jp) /s
wakamoto (jp) / wakamoto pharmaceutical intestinal drug
solgar / advanced multi-billion dophilus
solgar / advanced 40+ acidophilus
solgar / advanced acidophilus plus
biospec / probiotio-5
anabolic laboratories / probiotic complete
UltraFlora® Balance
UltraFlora® Immune Booster
UltraFlora® Intensive Care
UltraFlora® Restore
Seeking Health / Probiota Bifidobacterium
Maple Life Science™ / Bifidobacterium longum
Maple Life Science™ / Lactobacillus plantarum
Maple Life Science™ / Lactobacillus reuteri
Wakunaga / Kyo-Dophilus® Multi 9 Probiotic
Immune Defense Daily Chewable Probiotic
Microbiome Plus+™ Gastrointestinal
Nature's Lab Cardio
Nature's Lab Intensive GI
Probiotic Sticks
Schiff® Digestive Advantage® Advanced Probiotics Multi-Strain Support
Purica Probiotic Cardio
Purica Probiotic Intensive GI
Steris Pharma(IN)/OXABACTOR
Bulk Probiotics / Saccharomyces boulardii Probiotic Powder (Digestive Support)
Bulk Probiotics / L. Reuteri Probiotic Powder
Bulk Probiotics / L. Plantarum Probiotic Powder
Bulk Probiotics / L. Casei Probiotic Powder (Candida Support)
Bulk Probiotics / L. Acidophilus Probiotic Powder
Bulk Probiotics / B. Longum Probiotic Powder
Wakunaga / Pro+ Synbiotic
Wakunaga / Daily Probiotic
Wakunaga / 50+
Ombre / Ultimate Immunity
Ombre / Restore
Ombre / Harmony
Biorela® Daily
Ombre / Endless Energy
Bromatech (IT) / Ramnoselle
Bromatech (IT) / Aflugenex

Bromatech (IT) / Bifiselle
Bromatech (IT) / Milonet
Bromatech (IT) / Piloorex
JGL / Lactogyn
ImmuneBiotech Medical Sweden AB / GutMagnific®
Genesis Bifidobacterium Complex BB Probiotic
Bromatech (IT) / Acronelle
Nature's Bounty / Acidophilus Probiotic
RepHresh / Pro-B Probiotic Supplement for Women
InnovixLabs / Mood Probiotic
Metabolics / Bifidobacterium Longum Powder
Metabolics / Lactobacillus Acidophilus
Metabolics / Lactobacillus Plantarum Powder
VSL Pharmaceuticals / Oxadrop
Microbiome Labs / MEGA Genesis
Microbiome Labs / ZENBIOME Dual
PrecisionBiotics / Zenflore
PrecisionBiotics / Immune
PharmExtracta / Bowell
PharmExtracta (IT) / FG5 Forte In Sachets
PharmExtracta (IT) / Gliadines buccal stickpacks
PharmExtracta (IT) / INatal Sachets
Eden's / 3-in-1 Synbiotic Superblend
Schwabe Pharma Italia / MegaStress
Schwabe Pharma Italia / AxiBoulardi
SuperSmart / H. Pylori Fight
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)
SuperSmart / Lactobacillus reuteri
imagilin / NutriLots Replenish
BioGaia / BioGaia Osortis
BioGaia / BioGaia Products
PoolPharma (IT) / ProbioTKMIO
Botica Alternativa / Lactobacilos Reuteri
SuperSmart / Saccharomyces Boulardii
Align® Extra Strength
Align / Align® Chewables
Floradapt Cardio
Floradapt Gut Comfort
FloraVantage® Balance
HMF Forte
HMF IBS Relief
HMF Intensive

Note: Some of these are only available regionally – search the web for sources.

Substance to Consider Reducing or Eliminating

These are the most significant substances have been identified as probably contributing to the microbiome dysfunction.

In some cases blood work may show low levels of some vitamins, etc. listed below. This may be due to *greedy* bacteria reported at a high level above. Viewing bacteria data on the Kyoto Encyclopedia of Genes and Genomes (<https://www.kegg.jp/>) may provide better insight on the course of action to take.

2H-1?6,2-benzothiazol-1,1,3-trione {Saccharin}

amikacin

amoxicillin [CFS]

ampicillin [CFS]

Azadirachta indica {Neem}

benzylpenicillin sodium (antibiotic)

Cinnamomum zeylanicum {Ceylon Cinnamon}

ciprofloxacin [CFS]

clarithromycin [CFS]

clindamycin [CFS]

doxycycline [CFS]

gentamicin

glycyrrhizic acid {licorice}

imipenem

meropenem

metronidazole [CFS]

piperacillin-tazobactam

Propolis {Bee glue}

Punica granatum {pomegranate}

rifaximin

syzygium aromaticum {clove}

tetracycline

Thymus vulgaris {thyme}

tobramycin

trimethoprim

vancomycin (antibiotic)[CFS]

Zingiber officinale Roscoe {ginger}

Sample of Literature Used

The following are the most significant of the studies used to generate these suggestions.

[Gut microbiome and atrial fibrillation: mechanistic insights metabolites and comorbidities. Systematic review.](#)

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Authors Chen S,Tu M,Shi J,Hu X

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Acne

Addison's Disease (hypocortisolism)

ADHD

Age-Related Macular Degeneration and Glaucoma

Allergic Rhinitis (Hay Fever)

Allergies
Allergy to milk products
Alopecia (Hair Loss)
Alzheimer's disease
Amyotrophic lateral sclerosis (ALS) Motor Neuron
Ankylosing spondylitis
Anorexia Nervosa
Antiphospholipid syndrome (APS)
Asthma
Atherosclerosis
Atrial fibrillation
Autism
Autoimmune Disease
Barrett esophagus cancer
benign prostatic hyperplasia
Biofilm
Bipolar Disorder
Brain Trauma
Breast Cancer
Cancer (General)
Carcinoma
cdkl5 deficiency disorder
Celiac Disease
Cerebral Palsy
Chronic Fatigue Syndrome
Chronic Kidney Disease
Chronic Lyme
Chronic Obstructive Pulmonary Disease (COPD)
Chronic Urticaria (Hives)
Coagulation / Micro clot triggering bacteria
Cognitive Function
Colorectal Cancer
Constipation
Coronary artery disease
COVID-19
Crohn's Disease
Cushing's Syndrome (hypercortisolism)
cystic fibrosis
d-lactic acidosis (one form of brain fog)
deep vein thrombosis
Denture Wearers Oral Shifts
Depression
Dermatomyositis
Eczema
Endometriosis
Eosinophilic Esophagitis
Epilepsy
erectile dysfunction
Fibromyalgia
Food Allergy
Functional constipation / chronic idiopathic constipation
gallstone disease (gsd)
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus
Generalized anxiety disorder
giant cell arteritis
Glioblastoma
Gout
Graves' disease

Gulf War Syndrome
Halitosis
Hashimoto's thyroiditis
Heart Failure
hemorrhagic stroke
Hemorrhoidal disease, Hemorrhoids, Piles
Hidradenitis Suppurativa
High Histamine/low DAO
hypercholesterolemia (High Cholesterol)
hyperglycemia
Hyperlipidemia (High Blood Fats)
hypersomnia
hypertension (High Blood Pressure)
Hypothyroidism
Hypoxia
IgA nephropathy (IgAN)
Inflammatory Bowel Disease
Insomnia
Intelligence
Intracranial aneurysms
Irritable Bowel Syndrome
ischemic stroke
Juvenile idiopathic arthritis
Liver Cirrhosis
liver fibrosis
Long COVID
Low bone mineral density
Lung Cancer
Lymphoma
Mast Cell Issues / mastitis
ME/CFS with IBS
ME/CFS without IBS
membranous nephropathy
Menopause
Metabolic Syndrome
Mood Disorders
multiple chemical sensitivity [MCS]
Multiple Sclerosis
Multiple system atrophy (MSA)
myasthenia gravis
neuropathic pain
Neuropathy (all types)
neuropsychiatric disorders (PANDAS, PANS)
Nonalcoholic Fatty Liver Disease (nafld) Nonalcoholic
NonCeliac Gluten Sensitivity
Obesity
obsessive-compulsive disorder
Osteoarthritis
Osteoporosis
pancreatic cancer
Parkinson's Disease
Peanut Allergy
Polycystic ovary syndrome
Postural orthostatic tachycardia syndrome
Premenstrual dysphoric disorder
primary biliary cholangitis
Primary sclerosing cholangitis
Psoriasis

rheumatoid arthritis (RA),Spondyloarthritis (SpA)

Rosacea

Schizophrenia

scoliosis

sensorineural hearing loss

Sjögren syndrome

Sleep Apnea

Slow gastric motility / Gastroparesis

Small Intestinal Bacterial Overgrowth (SIBO)

Stress / posttraumatic stress disorder

Systemic Lupus Erythematosus

Tic Disorder

Tourette syndrome

Type 1 Diabetes

Type 2 Diabetes

Ulcerative colitis

Unhealthy Ageing

Vitiligo